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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/820,704	03/30/2001	Shigeyuki Hayashi	108962	4483
25944	7590	10/09/2003	EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			TRAN, HUAN HUU	
			ART UNIT	PAPER NUMBER
			2861	

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 18 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 18 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

# Notice of Allowability



Application No.

09/820,704

Examiner

Huan H. Tran

Applicant(s)

HAYASHI, SHIGEYUKI

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--  
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment filed on 12/30/02.
2. ☒ The allowed claim(s) is/are 15, 17, 19, 20, 23, 25, 27, 58, 60, 62, 71, 73, 75-81, 83, 85, 111-119 and 127-132.
3. ☒ The drawings filed on 16 July 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (i) By MPK on 10/10 2003  
a) ☒ All b) ☐ Some\* c) ☐ None of the:  
1. ☒ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_ Oliff & Berridge  
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_

5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application)  
(a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

8. ☒ CORRECTED DRAWINGS must be submitted.  
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached  
1) ☐ hereto or 2) ☐ to Paper No. \_\_\_\_\_  
(b) ☒ including changes required by the proposed drawing correction filed 30 December 2002, which has been approved by the Examiner.  
(c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the top margin (not the back) of each sheet. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- |   |   |
|---|---|
| 1 <input type="checkbox"/> Notice of References Cited (PTO-892)   | 2 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)          |
| 3 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                     | 4 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. <u>_____</u>      |
| 5 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449), Paper No. <u>18</u> | 6 <input type="checkbox"/> Examiner's Amendment/Comment                             |
| 7 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material  | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
|   | 9 <input type="checkbox"/> Other  |

Huan H. Tran  
Primary Examiner  
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**DETAILED ACTION**

**Allowable Subject Matter**

1. Claims 15, 17, 19-20; 23, 25, 27; 58, 60, 62; 71, 73, 75; 76-78; 79; 80; 81, 83, 85; 111-116; 117-119; 127-129; 130; 131; 132 are allowed.

2. The following is an examiner's statement of reasons for allowance:

As per claims 15, 81 and dependent claims thereof prior art of record do not teach or suggest an ink sheet cartridge comprising four spools detachably engaged with corresponding ends of the supply core tube and the take-up core tube, and one of the four spools has an engagement pawl, and one of the supply core tube and the take-up core tube is provided with an engagement member for engaging the engagement pawl, and the engagement member has a projection inwardly protruding from the inner peripheral surface of the one of the supply core tube and the take-up core tube.

As per claims 23, <sup>NO</sup>117, 127 and dependent claims thereof prior art of record do not teach or suggest an ink sheet set detachably mounted on an ink sheet cartridge including four spools and a cartridge body supporting the four spools, one of the four spools having an engagement pawl, the ink sheet set comprising a supply core tube and a take-up core tube, and one of the supply core tube and the take-up core tube is provided with an engagement member for engaging the engagement pawl, and the engagement member has a projection inwardly protruding from the inner peripheral surface of the one of the supply core tube and the take-up core tube. C

As per claims 58, <sup>NO</sup>71 and dependent claims thereof prior art of record do not teach or suggest a core tube detachably mounted on an ink sheet cartridge including four spools and a cartridge body supporting the four spools, one of the four spools having an engagement pawl, the core tube comprising a cylindrical body including an engagement member for engaging the

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engagement pawl, the cylindrical body has an inner peripheral surface, and the engagement member has a projection inwardly protruding from the inner peripheral surface.

As per claim 130 prior art of record do not teach or suggest an ink ribbon set comprising a take-up tube having a first end with a notch in the first end and a second end having an engaging mechanism within the second end of the take-up end, wherein the engaging mechanism is a camming mechanism having an engagement face and a cam face as shown in Fig. 13b .

As per claim 131 prior art of record do not teach or suggest an ink ribbon set comprising a take-up tube having a first end with a notch in the first end and a second end having an engaging mechanism within the second end of the take-up end, wherein the engaging mechanism is a plurality of notches in the end of the take-up core tube, at least one notch having an L-shape as shown in Fig. 12b.

As per claim 132 prior art of record do not teach or suggest an ink sheet set comprising a take-up tube having a first end with a notch in the first end and a second end having an engaging mechanism within the second end of the take-up end, wherein the engaging mechanism is an inner surface of the core tube with an appropriate coefficient of friction.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huan H. Tran whose telephone number is (703) 308-0749. The examiner can normally be reached on M-F with alternate Friday off, from 7:30am to 5pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Benjamin Fuller can be reached on (703) 308-0079. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-3421 for regular communications and (703) 308-3421 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1749.



Huan H. Tran  
Primary Examiner  
Art Unit 2861

hht  
January 25, 2003